

Amendments to the Claims

This listing of the claims replaces all prior versions and listing of the claims in the present application.

Listing of Claims

1. (currently amended) An outside-LAN (Local Area Network) connectable IP (Internet Protocol) key telephone system, comprising:

a key telephone system main unit, configured to accommodate a plurality of IP extension terminal units, for switching calls with outside lines; and

a key telephone system terminal unit, disposed outside the LAN, for accessing the key telephone system main unit through an IP network and for functioning as an IP extension terminal unit,

wherein said key telephone system terminal unit comprises:

log-in means for logging in to an IP address of the key telephone system main unit with predetermined first ID and password,

wherein said key telephone system main unit comprises:

means for authenticating the first ID and password received from the key telephone system terminal unit, registering the key telephone system terminal unit as an IP extension terminal unit, and allowing the key telephone system terminal unit to voice communicate with another IP extension terminal unit in accordance with the Voice over Internet Protocol (VoIP) without allowing the

key telephone system terminal unit to access directory information in a database in the key telephone system main unit,

wherein said key telephone system terminal unit registered as an IP extension terminal unit with the key telephone system main unit further comprises,

log-on means for logging on to the key telephone system main unit with predetermined second ID and password, and

means for displaying a portal site for accessing information stored in [[a]] the database ~~of the key telephone system main unit~~, when the log-on means has logged on to the key telephone system terminal unit, and

wherein said key telephone system main unit further comprises,

means for authenticating the second ID and password received from the key telephone system terminal unit and permitting the key telephone system terminal unit to access the directory information stored in the database.

2. (previously presented) The outside-LAN connectable IP key telephone system as set forth in claim 1,

wherein said database stores a telephone directory list of users of the extension terminal units, the telephone directory list including presence information which represents whether or not each of the extension terminal units is able to perform an extension call to the other extension terminal units, and

wherein the presence information of the key telephone system terminal unit registered as an IP extension terminal unit is turned on.

3. (canceled)

4. (previously presented) The outside-LAN connectable IP key telephone system as set forth in claim 1,

wherein said key telephone system main unit is configured to store information including voice messages, electronic mail, and telephone directory data in the database.

5. (currently amended) A key telephone system terminal unit, placed outside a LAN, for accessing through an IP network a key telephone system main unit configured to accommodate a plurality of IP extension terminal units and to switch calls to outside lines, and for functioning as an IP extension terminal unit, the key telephone system terminal unit comprising:

log-in means for logging in to an IP address of the key telephone system main unit with predetermined first ID and password,

wherein said key telephone system terminal unit is configured to be authenticated by the key telephone system main unit with the first ID and password, be registered as an IP extension terminal unit, and be allowed to voice communicate with another IP extension terminal units in accordance with the VoIP without allowing the key telephone system terminal unit to access

directory information in a database in the key telephone system main unit,

wherein said key telephone system terminal unit that has been registered as an IP extension terminal unit with the key telephone system main unit further comprises,

log-on means for logging on to the key telephone system main unit with predetermined second ID and password, and

means for displaying a portal site for accessing information stored in ~~[[a]] the database of the key telephone system main unit,~~ when the log-on means has logged on to the key telephone system terminal unit, and

wherein said key telephone system terminal unit is configured to be authenticated by the key telephone system main unit with the second ID and password and to access information stored in the database ~~of the key telephone system main unit.~~

6. (canceled)

7. (currently amended) A key telephone system main unit of an outside-LAN connectable key telephone system, configured to accommodate a plurality of IP extension terminal units, for switching calls with outside lines, the key telephone system main unit comprising:

means, accessed by a key telephone system terminal unit which is placed outside a LAN through an IP network and which functions as an IP extension terminal unit, for authenticating the key telephone system terminal unit with predetermined first

ID and password, for permitting the key telephone system terminal unit to log in to the key telephone system main unit, for registering the key telephone system terminal unit as an IP extension terminal unit, and for allowing the key telephone system terminal unit to voice communicate with another IP extension terminal units in accordance with the VoIP without allowing the key telephone system terminal unit to access directory information in a database in the key telephone system main unit, and

means for authenticating the key telephone system terminal unit registered as an IP extension terminal unit with predetermined second ID and password, for permitting the key telephone system terminal unit to log on to the IP key telephone system main unit, and for permitting the key telephone system terminal unit to access the directory information stored in [[a]] the database of the key telephone system main unit.

8. (canceled)

9. (currently amended) A method for causing a key telephone system terminal unit placed outside a LAN to access, through an IP network, a key telephone system main unit which is configured to accommodate a plurality of IP extension terminal units and to switch calls with outside lines, and for permitting the key telephone system terminal unit to function as an IP extension terminal unit, comprising the steps of:

~~causing~~ the key telephone system terminal unit ~~to log~~  
logging in to an IP address of the key telephone system main unit  
with predetermined first ID and password;

~~causing~~ the key telephone system main unit ~~to authenticate~~  
authenticating the key telephone system terminal unit with the  
first ID and password, ~~register~~ registering the key telephone  
system terminal unit as an IP extension terminal unit, and ~~allow~~  
allowing the key telephone system terminal unit to voice  
communicate with another IP extension terminal units in  
accordance with the VoIP without allowing the key telephone  
system terminal unit to access directory information in a  
database in the key telephone system main unit;[[,]]

~~causing~~ after the key telephone system terminal unit has  
been registered as an IP extension terminal unit with the key  
telephone system main unit, logging the key telephone system  
terminal unit ~~to log~~ on to the key telephone system main unit  
with predetermined second ID and password;

~~causing~~ the key telephone system main unit ~~to authenticate~~  
authenticating the key telephone system terminal unit with the  
second ID and password and ~~permit~~ permitting the key telephone  
system terminal unit to access the directory information stored  
in [[a]] the database; and

~~causing the key telephone system main unit to permit~~ after  
the key telephone system terminal unit has been permitted to  
access the directory information ~~to log on to the key telephone~~

~~system main unit~~, [[and]] the key telephone system terminal unit  
~~to display~~ displaying a portal site for accessing information  
stored in the database ~~of the key telephone system main unit~~.

10. (canceled)